

Notice of Allowability	Application No.	Applicant(s)	
	10/584,254	TAKADA, AKINARI	
	Examiner	Art Unit	
	KIET DOAN	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/13/2009.
2. ☒ The allowed claim(s) is/are 1, 2, 6-10, 12-14 and 16.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>10/02/2009</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

/Kiet Doan/
Examiner, Art Unit 2617

DETAILED ACTION

1. This office action is response to Applicant's Remarks file on 08/13/2009.
Claims 1, 6, 7 and 16 are amended.
Claims 3-5, 11 and 15 are cancelled.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08/13/2009 has been entered.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Walter K. Robinson at (202) 295-4623 on 10/02/2009.

The application is amended as follows:

Claim 7. A radio controlled timepiece comprising:

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a clocking unit configured to clock a time;

a display unit configured to display a time based on clock information from the clocking unit;

a receiving unit configured to receive standard radio waves from transmitting stations in at least two countries or regions;

a second-synchronization detecting unit configured to detect second-synchronization information from a demodulated signal obtained by the receiving unit, wherein the second-synchronization detecting step includes;

a sampling unit configured to sequentially or synchronously detect logic "1" or logic "0" of the demodulated signal at regular intervals; and

an adding unit configured to add up a number of times of detection of any one of the logic "1" and the logic "0" detected by the sampling unit,

a transmitting station determining unit configured to analyze the demodulated signal based on the second-synchronization information to determine a transmitting station in a country or a region; and

a decoding unit configured to decode information included in the standard radio wave from the transmitting station determined by the transmitting station determining unit to obtain time information, wherein

the clock information of the clocking unit is corrected based on the time information obtained by the decoding unit, and

the transmitting station determining unit is configured to determine the transmitting station in the country or region base on the result of addition by the adding unit in the second-synchronization detecting unit.

Allowable Subject Matter

4. The following is an examiner's statement of reasons for allowance:

Claims 1, 2, 6-10, 12-14 and 16 are allowed.

According to prior art record, **claim 1**. Ishii (US 6,728,533 B2) teaches a time correction method comprising:

a clocking unit configured to clock a time (Col. 3, lines 30-31 teach mobile phone contain clock 18),

a display unit configured to display a time based on clock information from the clocking step (Col.3, line 31),

a receiving unit configured to receive standard radio waves from transmitting stations in at least two countries or regions (Col. 3, lines 40-45 teach base station 1 and base station 2 transmitting in different regions time).

However, **Ishii alone or in combination fails to teach or suggest**

a second-synchronization detecting unit configured to detect second-synchronization information from a demodulated signal obtained by the receiving step, wherein the second-synchronization detecting step includes:

an edge detecting unit configured to sequentially or synchronously detect rising edges and falling edges of the demodulated signal; and

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a synchronization determining unit configured to obtain the second-synchronization information of the demodulated signal based on the detected rising edges or the detected falling edges;

a transmitting station determining unit configured to analyze the demodulated signal based on the second-synchronization information to determine a transmitting station in a country or a region; and

a decoding unit configured to decode information included in the standard radio wave from the transmitting station determined by the transmitting station determining unit to obtain time information, wherein

the clock information of the clocking unit is corrected based on the time information obtained by the decoding unit.

Claim 7. Ishii (US 6,728,533 B2) teaches a radio controlled timepiece comprising,

a clocking unit configured to clock a time (Col. 3, lines 30-31 teach mobile phone contain clock 18);

a display unit configured to display a time based on clock information from the clocking unit (Col.3, line 31);

a receiving unit configured to receive standard radio waves from transmitting stations in at least two countries or regions (Col. 3, lines 40-45 teach base station 1 and base station 2 transmitting in different regions time).

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However, **Ishii alone or in combination fails to teach or suggest**
a second-synchronization detecting unit configured to detect second-
synchronization information from a demodulated signal obtained by the receiving unit,
wherein the second- synchronization detecting unit includes:

a sampling unit configured to detect logic "1" or logic "0" of the demodulated
signal at regular intervals; and

an adding unit configured to add up a number of times of detection of
any one of the logic "1" and the logic "0" detected by the sampling unit,

a transmitting station determining unit configured to analyze the demodulated
signal based on the second-synchronization information to determine a transmitting
station in a country or a region; and

a decoding unit configured to decode information included in a standard radio
wave from the transmitting station determined by the transmitting station determining
unit to obtain time information, wherein

the clock information of the clocking unit is corrected based on the time
information obtained by the decoding unit, and

the transmitting station determining unit is configured to determine the
transmitting station in the country or region based on a result of addition by the adding
unit in the second- synchronization detecting unit.

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claim 16. Ishii (US 6,728,533 B2) teaches a radio controlled timepiece, comprising:

a clocking unit configured to clock a time (Col. 3, lines 30-31 teach mobile phone contain clock 18);

a display unit configured to display a time based on clock information from the clocking unit (Col.3, line 31);

a receiving unit configured to receive standard radio waves from transmitting stations in at least two countries or regions (Col. 3, lines 40-45 teach base station 1 and base station 2 transmitting in different regions time).

However, **Ishii alone or in combination fails to teach or suggest**

a second-synchronization detecting unit configured to detect second-synchronization information from a demodulated signal obtained by the receiving unit, wherein the second-synchronization detecting unit includes:

a sampling unit configured to sequentially or synchronously detect rising edges and falling edges of the demodulated signal; and

an adding unit configured to add up a number of times of detection of the rising edges and falling edges of the demodulated signal;

a transmitting station determining unit configured to analyze the demodulated signal based on the second-synchronization information to determine a transmitting station in a country or a region; and

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a decoding unit configured to decode information included in a standard radio wave from the transmitting station determined by the transmitting station determining unit to obtain time information, wherein

the clock information of the clocking unit is corrected based on the time information obtained by the decoding unit.

Claims 2, 6, 8-10, 12-14 are allow as being dependent on the independent claims of 1 and 16.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KIET DOAN whose telephone number is (571)272-7863. The examiner can normally be reached on 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kiet Doan/
Examiner, Art Unit 2617

/Charles N. Appiah/
Supervisory Patent Examiner, Art Unit 2617